

Miscellaneous Notes on the East Asiatic Uredinales  
with special reference to the Japanese Species  
(VII)

By

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147) **Milesina chikugoensis** HIRATSUKA, f. in Transact. Sapporo Nat. Hist. Soc. XVI, p. 140, 1940.

Hab. On *Cyrtomium Fortunei* J. Sm. (*Polystichum Fortunei* NAKAI) (*Yabusotetsu*).

Honshû: Prov. Inaba: Tottori (April 9, 1939, HIRATSUKA, f.). New to Honshû!

148) **Milesina Coniogrammes** HIRATSUKA, f. in Bot. Mag. Tokyo, XLVIII, p. 45 & text-fig. 6, 1934; Monogr. Pucciniastreae, p. 99 & pl. V, fig. 6.

*Milesia Coniogrammes* TRANZSCHEL, Conspect. Ured. URSS, p. 66, 1939 (*syn. nov.*).

149) **Hyalopsora Diplazii** HIRATSUKA, f. nov. spec.

*Hyalopsora Polypodii* (not MAGNUS) Auct.

Soris uredosporiferis amphigenis, subepidermalibus, sparsis vel laxè aggregatis, minutis, rotundatis vel oblongis, 0.1–0.6 mm diam., mox apertis et subpulverulentis, flavidis; paraphysibus paucis tenuiter tunicatis cinctis; uredosporis obovatis, ellipsoideis vel oblongis, rarius oblongo-clavatis, distincte verruculosis,  $23\text{--}41 \times 15\text{--}23\mu$ ; episporio 0.8–1.2 $\mu$  crasso, hyalino; poris germinationis 2–4 aequatorialibus praeditis; amphisporis variabilibus, ovatis, ellipsoideis, piriformibus vel oblongis, saepe angulatis vel irregularibus, fere levibus,  $20\text{--}38 \times 14\text{--}25\mu$ ; episporio hyalino, 1.5–5 $\mu$ , ad angulos usque 7.5 $\mu$  crasso; poris germinationis 4–7 sparsis praeditis.

Teleutosporis intra cellulas epidermidis evolutis, plerumque dense aggregatis.

gatis, levibus, hyalinis, 2-pluri-cellularibus (plerumque 2-5), 20-32 $\mu$  diam.; episporio tenui, 1 $\mu$  crasso.

Hab. On *Diplazium squamigerum* H. CHRIST. (*Kiyotaki-shida*). Honshû: Prov. Shinano: Mt. Komagatake (Kiso) (Aug. 9, 1931; Aug. 22 & 24, 1932, HIRATSUKA, f.). Prov. Inaba: Mt. Naginosen (July 31, 1932, HIRATSUKA, f. & Y. YOSHIDA); Mt. Hyônosen (Aug. 29, 1930, HIRATSUKA, f. type!; Sept. 25, 1932, O. ISHIUCHI).

This species closely resembles *Hyalopsora Polypodii* (DIET.) MAGNUS, especially in characters of amphispores, but, the uredospores of this fungus are larger than those of the latter species, and their walls are distinctly verrucose while those of the latter are slightly echinulate or nearly smooth.

150) ***Pucciniastrum alaskanum*** MAINS in Bull. Torrey Bot. Club, LXVI, p. 620, 1939.

*Pucciniastrum*(?) *beringianum* TRANZSCHEL, Conspect. Ured. URSS, p. 319, 1939 (*syn. nov.*).

Hab. On *Gentiana glauca* PALL. Alaska: Mt. Mc Kinley National Park (D. V. BAXTER, type of *Pucciniastrum alaskanum* MAINS!); Bering Isl. (E. KARDAKOVA, type of *Pucciniastrum*(?) *beringianum* TRANZSCHEL!).

151) ***Pucciniastrum Crawfordiae-japonicae*** HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, sparsis vel aggregatis, saepe totam folii superficiem plus minus aequaliter obtegentibus, minutis, rotundatis, 0.12-0.25 mm diam., tandem poro centrali apertis, flavo-brunneis vel brunneis; peridio hemisphaerico, ex cellulis minutis, irregulariter polygonalibus, 9-14 $\mu$  diam., cellulis ostiolaribus rotundatis, 12-16 $\mu$  diam., levibus; uredosporis obovatis, late-ellipsoideis vel oblongis, aculeatis, 22-32 $\times$ 13-18 $\mu$ ; episporio 1.5-3 $\mu$  crasso. Teleutosporis ignotis.

Hab. On *Crawfordia japonica* SIEB. et ZUCC. (*Tsuru-rindô*). Hokkaidô: Prov. Kitami: Okedo-mura (Aug. 26, 1929, M. OKAMOTO, type!).

The present species closely resembles the Philippine species, *Pucciniastrum Crawfordiae* SYDOW.<sup>(1)</sup> But, it distinctly differs from the latter by having narrower uredospores with thicker and aculeate episporium.

(1) SYDOW & PETRAK in Ann. Myc. XXIX, p. 170, 1931.

152) **Thekopsora nipponica** HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, sparsis vel aggregatis, saepe totam folii superficiem aequae obtegentibus, minutis, rotundatis vel oblongis, 0.2–1 mm diam., flavis vel flavo-brunneis, tandem poro centrali apertis; peridio hemisphaerico, ex cellulis minutis, irregulariter polygonalibus, 6–13 $\mu$  diam., cellulis ostiolaribus rotundatis, levibus; uredosporis globosis, subglobosis vel obovatis, dense verrucosis, 16–24  $\times$  15–22 $\mu$ ; episporio hyalino, 2–2.5 $\mu$  crasso.

Soris teleutosporiferis plerumque hypophyllis, inconspicuis; teleutosporis in cellulis epidermidis evolutis, subglobosis vel ellipsoideis, 2–6-cellularibus, flavo-brunneis, levis, 24–75 $\mu$  latis, 18–24 $\mu$  altis; episporio tenui, 1–1.5 $\mu$  crasso, ad apicem paullo crassiore.

Hab. On *Galium davuricum* TURCZ. (*Ôba-no-yaemugura*). Hokkaidô: Prov. Ishikari: Mt. Teine (Oct. 19, 1924, HIRATSUKA, f.); Garugawa (Oct. 17, 1925, HIRATSUKA, f.). Prov. Shiribeshi: Zenibako-tôge (Nov. 1, 1925, HIRATSUKA, f.). Prov. Ôshima: Ônuma (Oct. 29, 1922, HIRATSUKA, f., type!). Honshû: Prov. Inaba: Mt. Ôginosen (Oct. 17, 1931, Y. YOSHIDA & T. KATAYAMA).

The present species distinctly differs from *Thekopsora guttata* (SCHRÖT.) SYDOW, by the shape and size of uredospores and the characters of episporium of the uredospore. The uredospores of this fungus are mostly globose or subglobose, measuring 16–24  $\times$  15–22 $\mu$ , while those of *Thekopsora guttata* are mostly obovate, ellipsoidal or oblong, measuring 13–24  $\times$  10–18 $\mu$ . The episporium of uredospore of the former species is closely verrucose, while that of the latter is minutely echinulate.

153) **Thekopsora Myrtilina** KÄRSTEN, Myc. Fenn. IV, p. 59, 1879; HIRATSUKA, f., Monogr. Pucciniastreae, p. 306 & pl. IX, fig. 6, 1936.

*Thekopsora myrtili* TRANZSCHER, Conspect. Ured. URSS, p. 312, 1939 (*syn. nov.*).

154) **Thekopsora Fischeri** CRUCHET in Bull. Soc. Vaud. d. Sci. Nat. II, p. 77, 1916; HIRATSUKA, f., Monogr. Pucciniastreae, p. 327, 1936.

*Thekopsora*(?) *ericae* TRANZSCHER, Conspect. Ured. URSS, p. 312, 1939 (*syn. nov.*).

155) **Phakopsora Artemisiae** HIRATSUKA, f. in Jap. Jour. Bot. III, p. 298, 1927; Bot. Mag. Tokyo, XLIX, p. 854, 1935.

*Phakopsora Artemisiae-japonicae* TRANZSCHEL, Conspect. Ured. URSS, p. 380, 1939 (*syn. nov.*).

156) **Chrysomyxa Rhododendri** DE BARY in Bot. Zeitg. XXXVII, p. 809 & pl. X, figs. 1-6, 1879.

Hab. On *Rhododendron parvifolium* ADAMS (*Sakai-tsutsuji*). Hokkaidô: Prov. Nemuro: Cape Ochi'ishi (July 17, 1924, HIRATSUKA, f.). *Rhododendron parvifolium* is a new host plant for this species.

157) **Chrysomyxa succinea** (SACC.) TRANZSCHEL, Conspect. Ured. URSS, p. 314, 1939.

*Gloeosporium succineum* SACCARDO in Michelia, II, p. 145; Syll. Fung. III, p. 708; THÜMEN, Mycotheca Univ. no. 1765.

*Chrysomyxa alpina* HIRATSUKA, f. in Bot. Mag. Tokyo, XLIII, p. 471, 1929.

Hab. On *Rhododendron chrysanthum* PALL. (*Kibana-shakunage*).

158) **Cerotelium Tanakae** ITO in ITO & HOMMA in Transact. Sapporo Nat. Hist. Soc. XV, p. 118, 1938.

Hab. On *Amphicarpaea trisperma* BAKER (*Falcata comosa* O. KUNTZE var. *japonica* MAK.) (*Yabumame*). Honshû: Prov. Echizen: Eihei'ji (Sept. 24, 1939, HIRATSUKA, f. & E. TOBINAGA). New to Honshû!

159) **Kuehneola Uredines** (LINK) ARTHUR in Résult. Sci. Congr. Internat. Bot. Vienne (1905), p. 342, 1906.

Hab. On *Rubus* sp. (*Rubus nigrobaccus* BAILEY?) (*Cultivated*). Honshû: Prov. Echizen: Maruyamanishi-mura (Sept. 21, 1939, E. TOBINAGA). New to Honshû!

160) **Aplospora Lonicerae** TRANZSCHEL, Conspect. Ured. URSS, p. 347 & text-figs. 6 & 7, 1939.

Hab. On *Lonicera strophiphora* FRANCH. (*Arage-hyôtanboku*). Honshû: Prov. Rikuchû: Asakishi-mura (Sept. 24 & Oct. 21, 1906, G. YAMADA).

The present species is new to the mycological flora of Japan, and *Lonicera strophiphora* is a new host plant for it.

149) *Hyalopsora Diplazii* HIRATSUKA, f. (新種) — きよたきしだヲ寄主トスルモノデ、從來、*Hyalopsora Polypodii* (DIET.) MAGNUS トシテ取扱ハレテ居ッタ菌デアルガ、同種トハ夏孢子ノ諸性質ニヨツテ明カニ區別スル事が出來ル。本州信濃(木曾駒ヶ岳)、因幡(那岐山、氷ノ山)ノ産デアル。

151) *Pucciniastrum Crawfordiae-japonicae* HIRATSUKA, f. (新種) — つるりんだうニ寄生、北海道北見國置戸村ニ於テ岡本三男氏ノ採集ニ係ルモノデアル。フィリピン諸島産ノ *Pucciniastrum Crawfordiae* SYDOW トハ夏孢子ノ形、大サ、被膜ノ性質等ニヨツテ明カニ區別スル事が出來ル。

152) *Thekopsora nipponica* HIRATSUKA, f. (新種) — おほばのやへむぐらニ寄生。本種ハ *Thekopsora guttata* (SCHRÖT.) SYDOW トハ顯微鏡的ニハ夏孢子ノ形、大サ、被膜ノ性質ニヨリ、肉眼的ニハ夏孢子堆ノヨリ大形ナル點ニヨツテ明カニ區別出來ル。北海道石狩國手稲山、輕川村、後志國錢函峠、渡島國大沼湖畔、本州因幡國扇ノ山ノ産デアル。

160) *Aplospora Lonicerae* TRANSCHEL — あらげひょうたんぼくニ寄生。山田玄太郎博士ガ本州陸中國淺岸村ニ於テ發見採集サレタモノデ、今回新ニ我國銹菌「フロラ」ニ加ヘ得タ種類デアル。因ニ本種ハ蘇領沿海州及ビ滿洲國ニ廣ク分布ス。